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L5	20060	universal.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:42
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 Terms used **universal data model**

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1 [A platform for the description, distribution and analysis of genetic polymorphism data](#)

Greg D. Tyrelle, Garry C. King

 January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**

Publisher: Australian Computer Society, Inc.

 Full text available: pdf(174.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we suggest the requirements for an open platform designed for the description, distribution and analysis of genetic polymorphism data. This platform is discussed in terms of our implementation of a phenotypic prediction pipeline with general application to the understanding of genetic variation. The current state of polymorphism data storage and distribution has several recognised deficiencies. These include the lack of a shared data model and low overlap between databases. To move ...

Keywords: RDF, SNP, XML, database, distributed, web services

2 [Federated databases and systems: part I --- a tutorial on their data sharing](#)

David K. Hsiao

 July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(2.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The issues and solutions for the interoperability of a class of heterogeneous databases and their database systems are expounded in two parts. Part I presents the data-sharing issues in federated databases and systems. Part II, which will appear in a future issue, explores resource-consolidation issues. *Interoperability* in this context refers to data sharing among heterogeneous databases, and to resource consolidation of computer hardware, system software, and support personnel. *Resour* ...

Keywords: attribute-based, data-model-and-language-to-data-model-and-language mappings, database conversion, hierarchical, network, object-oriented, relational, schema transformation, transaction translation

3 [Research papers: human-computer interaction, visualization and collaboration: Towards a syntactic signature for domain models: proposed descriptive metrics for visualizing the entity fan-out frequency distribution](#)

Jean-Paul van Belle

 September 2002 **Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists**

on Enablement through technology SAICSIT '02**Publisher:** South African Institute for Computer Scientists and Information TechnologistsFull text available:  pdf(276.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The main objective of this paper is to find a minimal set of measures that allow the immediate, *intuitive* characterisation and visualization of the syntactic structure of models covering a particular application domain. The measures are validated against a test bed of twenty-two generic enterprise models. Traditional system engineering metrics were not very useful in characterizing or differentiating the different models. Instead, it was found that the frequency distribution of the entity ...

Keywords: case measures, enterprise models, entity fan-out distribution, metrics, model analysis, model complexity, modelling

4 Hyperstructure: Practical applitudes: case studies of applications of the ZigZag hypermedia system

Adam Moore, James Goulding, Tim Brailsford, Helen Ashman

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04****Publisher:** ACM PressFull text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ZigZag is a paradigm of hypermedia that consists of a multidimensional system of principled interconnections. Its basic features and specifications are now well known, but despite this, very few practical applications have been described or discussed. This paper examines two projects as case studies. These projects both use the unique properties of ZigZag in order to solve real-world problems. One of these case studies is a personal information management system for mobile phones, and the other ...

Keywords: PIM, ZigZag, application, applitude, bioinformatics, case studies

5 Comprehension through navigation and interaction: Philadelphia fullerine: a case study in three-dimensional hypermedia

J. Nathan Matias

September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05****Publisher:** ACM PressFull text available:  pdf(326.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Philadelphia Fullerine, a geodesic hypermedia sculpture designed by the author, is about ethnic and lower class life in mid-19th century Philadelphia. Each of the 60 faces presents primary image material and a short audio documentary. Adjacent faces are linked conceptually. This geodesic sphere has full rotational freedom. Viewers are encouraged to begin anywhere and follow any path of adjacency. This paper examines the underlying theory, design methods, and structure of the sculpture as ...

Keywords: Gzz, Tinderbox, ZigZag, authoring, creative nonfiction, directional links, hypermedia topology, implicit structure, information triage, sculptural hypertext, sculpture, spatial hypertext, transclusion, zzstructure

6 Universal framework for information activities

Esa Auramäki, Mauri Leppanen, Vesa Savolainen

December 1987 **ACM SIGMIS Database**, Volume 19 Issue 1**Publisher:** ACM PressFull text available:  pdf(886.37 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper defines a new fundamental, conceptual component of an information system.


This component, together with the principles of systems-theoretical control structure and linguistic abstraction, is employed in constructing a universal hierarchical framework for the information activities in an organization. The framework lays the foundations for the analysis, modelling and evaluation of different kinds of informations systems, and their positions and relations of information activities in an ...

7 Object management in POSTGRES using procedures

Michael Stonebraker

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(616.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the object management facilities being designed into a next-generation data manager, POSTGRES. This system is unique in that it does not invent a new data model for support of objects but chooses instead to extend the relational model with a powerful abstract data typing capability and procedures as full-fledged data base objects. The reasons to remain with the relational model are indicated in this paper along with the POSTGRES relational extensions.

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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 Cottrell, D.R.; Grebinski, T.J.;
Quality Electronic Design, 2003. Proceedings. Fourth International Symposium on
 24-26 March 2003 Page(s):214 - 219
 Digital Object Identifier 10.1109/ISQED.2003.1194734
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 Gregory, T.; Briggs, R.O.;
System Sciences, 2002. HICSS. Proceedings of the 35th Annual Hawaii International
Conference on
 7-10 Jan 2002 Page(s):9 pp.
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